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## THE MARINE MOLLUSCAN FAUNA FROM THE VICINITY OF BOLINAS BAY, CALIFORNIA.

BY BRUCE L. CLARK.

Bolinas Bay lies about ten miles to the north of the Golden Gate. It is one of the few coves along the rocky coast of Marin County where good collections of marine shells may be obtained. W. M. Wood in vol. xi, no. 5, p. 49 the NAUTILUS, describes Bolinas Bay as the "Conchologist's Paradise;" certainly there are very few places along the coast of middle California where specimens may be found in such great abundance.

At Bolinas we find two different types of shore line, the long spit which nearly cuts off the bay from the ocean and the rocky beach. Duxbury Reef, about two miles to the southwest of the town of Bolinas, extends out into the ocean for over a mile. This is bared at low tide and is one of the best localities that can be imagined for collecting certain rock-loving species. For a more complete description of this locality the reader is referred to the paper mentioned above.

In March, 1913, the Pacific Conchological Club took a trip to Bolinas Bay for the purpose of making collections at that point. The material collected on this excursion was turned over to the writer for determination. This collection was considerably augmented by Mr. Daniel Emery, who visited Bolinas Bay at a later date. He collected out on the reef and

obtained certain species that had never been reported in this vicinity before.

The list of species given below is the largest ever reported from Bolinas Bay. It includes a number of forms that had heretofore not been reported as far north. Two other lists of species from this locality have been published, one by Robt. E. C. Stearns in 1866, the other by W. M. Woods in 1897. Mr. Stearns published a list of eighty-three marine species.<sup>1</sup> Mr. Wood, to whose paper reference has already been made, listed seventy-nine species. The number of species in the collection of the Pacific Conchological Club is ninety-seven. To this may be added those listed by Stearns and Wood and not found in the Pacific Conchological Club collections, making a total of one hundred and twenty-seven species from this locality.

*Species collected at Bolinas Bay by the Pacific Conchological Club.*

<i>Amphineura</i>	<i>Macoma secta</i> Conrad
<i>Ischnochiton raymondi</i> Pils.	<i>Macoma</i> , n. sp. ?
<i>Cryptochiton stelleri</i> Midd.	<i>Modiola recta</i> Conrad
<i>Mopalia vespertina</i> Gould	<i>Monia macrochisma</i> Deshayes
<i>Mopalia muscosa</i> Gould	<i>Mytilus californicus</i> Conrad
	<i>Mytilus edulus</i> Linnaeus
<i>Pelecypoda</i>	<i>Paphia tenerrima</i> Carpenter
<i>Adula falcata</i> Gould	<i>Paphia staminea</i> Conrad
<i>Adula stylina</i> Carpenter	<i>Paphia staminea rugerata</i>
<i>Anomia lampe</i> Gray	Desh.
<i>Cardita subquadrata</i> Carpenter	<i>Paphia staminea</i> Conrad var.
	<i>orbella</i>
<i>Cardium corbis</i> Martyn	<i>Parapholas californicus</i> Conrad
<i>Chama exogyra</i> Conrad	
<i>Chama pellucida</i> Sowerby	
<i>Cryptomya californica</i> Conrad	<i>Petricola carditoides</i> Conrad
	<i>Pecten giganteus</i> Gray
<i>Macoma balthica</i> Linnaeus	<i>Pecten hastatus</i> Sowerby
<i>Macoma cf. inflatula</i> Dall	<i>Pholadidea penita</i> Conrad
<i>Macoma inquinata</i> Deshayes	<i>Platydon cancellatus</i> Conrad
<i>Macoma nasuta</i> Conrad	<i>Saxicava pholadis</i> Linnaeus

<sup>1</sup> Proc. Calif. Acad. Sci., vol. iii, p. 275.

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|------------------------------|--|
| Saxicava rugosa Linnaeus     | Diala sp.?                             |
| Saxidomus nuttalli Conrad    | Epitonium indianorum Hinds             |
| Schizothærus nuttalli Conrad | Fissuridea aspera Esch.                |
| Semele rubropicta Dall       | Haliotus rufescens Swains              |
| Siliqua lucida Conrad        | Haliotus cracherodii Leach             |
| Siliqua nuttalli Conrad      | Lacuna porrecta exaequata<br>Carpenter |
| Solen sicareus Gould         | Littorina planaxis Philippi            |
| Spisula catilliformis Conrad | Littorina scutulata Gould              |
| Tellina bodegensis Hinds     | Margarites acuticostatus Cpr.          |
| Tellina buttoni Dall         | Megatebennus bimaculatus<br>Dall       |
| Zirphea crispata Linnaeus    | Nassa cooperi Forbs                    |
| Xylotrya setacea Tryon       | Nassa fossata Gould                    |
|                              | Nassa mendica Gould                    |
|                              | Nassa perpinguis Gould                 |
|                              | Ocinebra lurida munda Cpr.             |
|                              | Ocinebra lurida Middendorf             |
|                              | Ocinebra interfossa Cpr.               |
|                              | Odostomia tenuis Carpenter             |
|                              | Olivella biplicata Sowerby             |
|                              | Olivella intorta Carpenter             |
|                              | Polynices lewisii Gould                |
|                              | Polynices draconica Dall               |
|                              | Purpura foliata Gould                  |
|                              | Tegula funebreale A. Adams             |
|                              | Tegula brunnea Philippi                |
|                              | Tegula montereyi Kien                  |
|                              | Tegula pulligo Martyn                  |
|                              | Thais lamellosa Gmelin                 |
|                              | Thais lima Martyn                      |
|                              | Thais saxicola Valenciennes            |
|                              | Turris incisa Carpenter                |
|                              | Turris ophiderma Dall                  |

*Species collected by Robt. E. C. Stearns at Bolinas Bay and not found in the collection of the Pacific Conchological Club.*

#### *Amphineura*

Tonicella lineata Wood

#### *Pelecypoda*

Clidiophora sp.

Macoma secta var. edulis Nutt.	Lacuna unifasciata Cpr.
Pholadidea ovoidea Gould	Lacuna solidula Sby.
Semele rubiolineata "auct. non Conrad"	Muricidea californica Hinds
Venerupis lamellifera Con.	Murex trialatus Sowerby
<i>Gasteropoda</i>	Ocinebra lurida Midd. var. aspera Bairs
Acmaea insessa Hinds (Na- cella insessa Hinds)	Tegula montereyi Kien (Chlorostoma pfeifferi Phil.)
Acmaea instabilis Gld. (Na- cella instabilis Gld.)	Thais lamellosa var. ostrina Gould
Acmaea triangularis Cpr. <sup>1</sup>	
Fissuridea murina Dall (Gly- phis densiclathrata Rve.)	

*Species collected by W. M. Wood at Bolinas Bay and not found in the Pacific Conchological Club collections or in the list given by Stearns.*

<i>Amphineura</i>	Saxicava arctica Linn.
Mopalia hindsii	<i>Gasteropoda</i>
<i>Pelecypoda</i>	Crepidula navicelloides Nut- tall (C. nivea Gould)
Entodesma saxicola Baird	Haliotes fulgens Phil.
Kellia laperousii Deshayes	Hipponyx tumens (Amalthea tumens Cpr.)
Lithophagus plumulata Hanl.	Margarites pupilla Gould
Lyonsia californica Conrad	
Mytilimeria nuttalli Conrad	
Pholadidea parva Tryon	

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STUDIES IN NAJADES.

BY A. E. ORTMANN.

(Continued from page 22.)

LEXINGTONIA nov. gen.

Shell subquadrate or subtrapezoidal, with slightly elevated beaks, and well developed hinge teeth. Beaks not much an-

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<sup>1</sup> According to Keep probably a variety of *A. paleacea* Gld.